

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
United States <sup>b</sup>	9,924	5,396	3,162	1,366	6,322.4	3,673.7	1,763.6	885.1
Alabama	99	66	15	18	97.1	66.0	14.3	16.8
Education, Department of	26	26	0	0	26.0	26.0	0.0	0.0
Forensic Sciences, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Geological Survey	34	28	3	3	32.1	28.0	2.3	1.8
Marine Environmental Science Consortium, Dauphin Island Sea Lab	31	7	12	12	31.0	7.0	12.0	12.0
Transportation, Department of	6	3	0	3	6.0	3.0	0.0	3.0
Alaska	90	54	21	15	71.3	46.5	16.1	8.7
Environmental Conservation, Department of	6	1	1	4	0.8	0.5	0.1	0.2
Natural Resources, Department of; Division of Geological and Geophysical Surveys	62	40	15	7	62.0	40.0	15.0	7.0
Railroad Corporation	16	10	5	1	5.0	3.0	1.0	1.0
Transportation and Public Facilities, Department of	6	3	0	3	3.5	3.0	0.0	0.5
Arizona	33	16	11	6	32.5	15.5	11.0	6.0
Game and Fish Department	15	8	5	2	14.5	7.5	5.0	2.0
Juvenile Corrections, Department of	6	4	2	0	6.0	4.0	2.0	0.0
Transportation, Department of	12	4	4	4	12.0	4.0	4.0	4.0
Arkansas	129	86	26	17	54.0	33.5	15.5	5.0
Game and Fish Commission	120	80	25	15	49.0	30.0	15.0	4.0
Natural Heritage Commission	1	1	0	0	1.0	1.0	0.0	0.0
Transportation, Department of	8	5	1	2	4.0	2.5	0.5	1.0
California	636	522	19	95	520.0	430.9	5.9	83.2
Air Resources Board	74	61	3	10	73.1	61.0	2.4	9.7
Conservation, Department of	25	23	0	2	8.6	8.2	0.0	0.4
Emergency Services Governor's Office	1	0	0	1	1.0	0.0	0.0	1.0
Energy Commission	179	148	0	31	179.0	148.0	0.0	31.0
Environmental Health Hazard Assessment, Office of	133	98	0	35	123.4	91.5	0.0	31.9
Forestry and Fire Protection, Department of	26	12	10	4	10.0	5.0	0.0	5.0
Housing and Community Development, Department of	3	3	0	0	0.5	0.5	0.0	0.0
Motor Vehicles, Department of	18	14	0	4	15.1	11.6	0.0	3.5
Pesticide Regulation, Department of	88	80	0	8	34.3	33.6	0.0	0.7
Toxic Substances Control, Department of	15	13	2	0	1.5	1.5	0.0	0.0
Transportation, Department of	73	69	4	0	72.5	69.0	3.5	0.0
Water Resources, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Colorado	99	61	35	3	59.2	48.1	9.8	1.3
Agriculture, Department of	34	5	29	0	9.1	1.8	7.3	0.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Natural Resources, Department of	38	30	6	2	23.5	20.7	2.5	0.3
Public Health and Environment, Department of	22	22	0	0	21.6	21.6	0.0	0.0
Transportation, Department of	5	4	0	1	5.0	4.0	0.0	1.0
Connecticut	269	182	36	51	167.7	119.4	34.0	14.3
Agricultural Experiment Station	103	59	32	12	103.0	59.0	32.0	12.0
Energy and Environmental Protection, Department of	54	50	4	0	27.0	25.0	2.0	0.0
Mental Health and Addiction Services, Department of	36	35	0	1	30.9	29.9	0.0	1.0
Social Services, Department of	32	32	0	0	2.2	2.2	0.0	0.0
Transportation, Department of	44	6	0	38	4.6	3.3	0.0	1.3
Delaware	18	12	1	5	18.0	12.0	1.0	5.0
Geological Survey	18	12	1	5	18.0	12.0	1.0	5.0
District of Columbia	31	9	10	12	21.5	7.0	7.5	7.0
Health, Department of	25	4	9	12	16.5	2.5	7.0	7.0
Transportation, Department of	2	1	1	0	1.5	1.0	0.5	0.0
Water and Sewer Authority	4	4	0	0	3.5	3.5	0.0	0.0
Florida	864	658	62	144	800.3	618.2	73.5	108.6
Agriculture and Consumer Services, Department of	11	4	7	0	11.0	4.0	7.0	0.0
Citrus, Department of	1	1	0	0	0.5	0.0	0.5	0.0
Fish and Wildlife Conservation Commission	832	649	42	141	775.0	612.0	57.0	106.0
Transportation, Department of	20	4	13	3	13.8	2.2	9.0	2.6
Georgia	9	4	1	4	7.4	4.5	1.0	1.9
Southern States Energy Board	9	4	1	4	7.4	4.5	1.0	1.9
Hawaii	12	5	1	6	4.9	1.5	0.2	3.2
Agriculture, Department of	10	5	1	4	2.9	1.5	0.2	1.2
Business, Economic Development, and Tourism, Department of	2	0	0	2	2.0	0.0	0.0	2.0
Idaho	83	28	51	4	67.0	22.1	42.6	2.3
Fish and Game, Department of	81	28	51	2	65.0	22.1	42.6	0.3
Transportation Department	2	0	0	2	2.0	0.0	0.0	2.0
Illinois	9	5	2	2	6.1	3.8	1.5	0.8
Transportation, Department of	9	5	2	2	6.1	3.8	1.5	0.8
Indiana	110	50	42	18	64.4	37.0	19.0	8.4
Natural Resources, Department of	80	40	28	12	49.0	27.0	15.0	7.0
Transportation, Department of	30	10	14	6	15.4	10.0	4.0	1.4
Iowa	23	18	4	1	11.9	10.0	1.9	0.0
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	9	8	0	1	5.0	5.0	0.0	0.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Natural Resources, Department of	14	10	4	0	6.9	5.0	1.9	0.0
Kansas	28	16	6	6	22.1	11.1	6.0	5.0
State Board of Regents	2	2	0	0	0.1	0.1	0.0	0.0
Transportation, Department of	19	9	6	4	19.0	9.0	6.0	4.0
Water Office	7	5	0	2	3.0	2.0	0.0	1.0
Kentucky	242	136	100	6	16.5	12.4	3.8	0.3
Fish and Wildlife Resources, Department of	238	132	100	6	15.5	11.4	3.8	0.3
Nature Preserves, Office of Kentucky	4	4	0	0	1.0	1.0	0.0	0.0
Louisiana	303	165	94	44	105.4	78.5	17.0	9.9
Coastal Protection and Restoration Authority	11	7	0	4	7.5	6.5	0.0	1.0
Transportation and Development, Department of	52	36	12	4	52.0	36.0	12.0	4.0
Wildlife and Fisheries, Department of	240	122	82	36	45.9	36.0	5.0	4.9
Maine	182	122	44	16	111.7	60.0	38.2	13.5
Agriculture, Conservation and Forestry, Department of	12	9	1	2	11.0	9.0	1.0	1.0
Aquaculture Innovation Center	5	3	2	0	5.0	3.0	2.0	0.0
Inland Fisheries and Wildlife, Department of	60	60	0	0	5.0	5.0	0.0	0.0
Marine Resources, Department of	42	29	9	4	31.0	22.0	6.5	2.5
MDI Biological Laboratory, Center for Biomedical Innovation	59	19	30	10	55.7	19.0	26.7	10.0
Transportation, Department of	4	2	2	0	4.0	2.0	2.0	0.0
Maryland	20	4	9	7	10.9	0.0	6.9	4.0
Transportation, Department of	20	4	9	7	10.9	0.0	6.9	4.0
Massachusetts	55	27	20	8	19.5	12.7	4.2	2.6
Environmental Protection, Department of	34	14	16	4	7.0	3.0	3.0	1.0
Fish and Game, Department of	10	4	3	3	3.5	2.0	1.0	0.5
Gaming Commission	2	2	0	0	1.6	1.5	0.0	0.1
MassVentures	1	0	0	1	1.0	0.0	0.0	1.0
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Water Resources Authority	2	1	1	0	0.4	0.2	0.2	0.0
Michigan	4	1	2	1	0.7	0.5	0.0	0.2
Agriculture and Rural Development, Department of	1	1	0	0	0.5	0.5	0.0	0.0
Environmental, Great Lakes, and Energy, Department of	3	0	2	1	0.2	0.0	0.0	0.2
Minnesota	83	50	23	10	61.1	42.0	12.9	6.2
Agriculture, Department of	30	11	15	4	8.9	3.0	4.9	1.0
Health, Department of	3	2	0	1	2.2	2.0	0.0	0.2
Natural Resources, Department of	50	37	8	5	50.0	37.0	8.0	5.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Mississippi	137	42	84	11	38.4	16.3	21.0	1.1
Environmental Quality, Department of	11	3	0	8	0.3	0.2	0.0	0.1
Gulf States Marine Fisheries Commission	1	1	0	0	1.0	1.0	0.0	0.0
Marine Resources, Department of	9	8	1	0	4.0	3.8	0.2	0.0
Transportation, Department of	3	0	0	3	1.0	0.0	0.0	1.0
Wildlife, Fisheries, and Parks, Department of	113	30	83	0	32.1	11.3	20.8	0.0
Missouri	218	77	133	8	103.0	60.0	41.0	2.0
Conservation, Department of	218	77	133	8	103.0	60.0	41.0	2.0
Montana	65	28	29	8	13.9	4.9	6.7	2.3
Environmental Quality, Department of	5	4	1	0	0.7	0.5	0.2	0.0
Fish, Wildlife and Parks, Department of	50	21	26	3	9.4	3.2	5.2	1.0
Natural Resources and Conservation, Department of	2	2	0	0	0.2	0.2	0.0	0.0
Transportation, Department of	8	1	2	5	3.6	1.0	1.3	1.3
Nebraska	9	1	8	0	1.2	1.0	0.2	0.0
Transportation, Department of	9	1	8	0	1.2	1.0	0.2	0.0
Nevada	9	5	4	0	1.2	0.4	0.8	0.0
Agriculture, Department of	3	1	2	0	1.2	0.4	0.8	0.0
Conservation and Natural Resources, Department of	6	4	2	0	0.0	0.0	0.0	0.0
New Hampshire	15	1	3	11	1.2	1.0	0.1	0.1
Transportation, Department of	15	1	3	11	1.2	1.0	0.1	0.1
New Jersey	48	43	1	4	19.4	15.8	0.5	3.1
Children and Families, Department of	11	11	0	0	1.2	1.2	0.0	0.0
Community Affairs, Department of	3	2	0	1	0.2	0.1	0.0	0.1
Corrections, Department of	3	3	0	0	3.0	3.0	0.0	0.0
Environmental Protection, Department of	23	21	1	1	11.5	10.5	0.5	0.5
Pinelands Commission	5	5	0	0	1.0	0.0	0.0	1.0
State Parole Board, New Jersey	3	1	0	2	2.5	1.0	0.0	1.5
New Mexico	55	35	4	16	10.0	5.0	0.5	4.5
Game and Fish, Department of	52	35	4	13	7.0	5.0	0.5	1.5
Transportation, Department of	3	0	0	3	3.0	0.0	0.0	3.0
New York	3,175	1,464	1,279	432	2,283.3	1,006.9	887.5	388.9
Agriculture and Markets, Department of	14	13	1	0	8.0	7.0	1.0	0.0
Energy Research and Development Authority	33	20	0	13	26.5	20.0	0.0	6.5
Environmental Conservation, Department of	90	60	22	8	46.6	28.3	15.8	2.5
Health, Department of	342	239	75	28	213.1	142.0	51.1	20.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Mental Health, Office of	1,534	644	697	193	958.0	372.0	406.0	180.0
People with Developmental Disabilities, Office of	27	17	4	6	17.5	9.7	2.8	5.0
Power Authority	12	10	0	2	12.0	10.0	0.0	2.0
Roswell Park Comprehensive Cancer Center	1,039	436	427	176	919.2	392.9	359.4	166.9
State Museum	79	22	53	4	77.4	22.0	51.4	4.0
Transportation, Department of	5	3	0	2	5.0	3.0	0.0	2.0
North Carolina	191	62	103	26	166.0	46.5	97.0	22.5
Agriculture and Consumer Services, Department of	140	31	91	18	140.0	31.0	91.0	18.0
Natural and Cultural Resources, Department of	46	27	12	7	21.0	11.5	6.0	3.5
Transportation, Department of	5	4	0	1	5.0	4.0	0.0	1.0
North Dakota	18	16	1	1	18.0	16.0	1.0	1.0
Game and Fish, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Historical Society of North Dakota	10	8	1	1	10.0	8.0	1.0	1.0
Transportation, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Ohio	30	19	9	2	11.8	8.7	2.8	0.3
Education & Workforce, Department of	1	1	0	0	0.1	0.1	0.0	0.0
Natural Resources, Department of	29	18	9	2	11.7	8.6	2.8	0.3
Oklahoma	28	13	11	4	15.3	8.5	5.0	1.8
Grand River Dam Authority	7	2	4	1	2.0	1.0	1.0	0.0
Health, Department of	12	6	5	1	5.8	2.5	3.0	0.3
Human Services, Department of	2	0	1	1	0.5	0.0	0.0	0.5
Transportation, Department of	6	4	1	1	6.0	4.0	1.0	1.0
Wildlife Conservation, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Oregon	306	108	171	27	168.1	75.4	79.7	13.0
Fish and Wildlife, Department of	202	56	135	11	97.6	37.4	56.2	4.0
Forestry, Department of	20	5	10	5	8.5	5.0	2.5	1.0
Geology and Mineral Industries, Department of	15	10	2	3	5.3	4.0	1.0	0.3
Human Services, Department of	46	16	24	6	41.0	14.0	20.0	7.0
Transportation, Department of	8	7	0	1	1.2	1.0	0.0	0.2
Water Resources Department	14	14	0	0	14.0	14.0	0.0	0.0
Watershed Enhancement Board	1	0	0	1	0.5	0.0	0.0	0.5
Pennsylvania	152	78	64	10	120.2	56.3	56.8	7.1
Conservation and Natural Resources, Department of	7	6	1	0	0.4	0.4	0.0	0.0
Environmental Protection, Department of	3	2	1	0	0.4	0.1	0.3	0.0
Fish and Boat Commission	10	10	0	0	0.3	0.3	0.0	0.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Game Commission	117	54	56	7	117.0	54.0	56.0	7.0
Susquehanna River Basin Commission	15	6	6	3	2.1	1.5	0.5	0.1
Rhode Island	3	2	1	0	2.5	2.0	0.5	0.0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	3	2	1	0	2.5	2.0	0.5	0.0
South Carolina	465	209	188	68	243.6	151.7	61.9	30.0
Health and Environmental Control, Department of	94	51	4	39	7.9	5.3	0.9	1.7
Natural Resources, Department of	327	129	180	18	208.0	129.0	61.0	18.0
Sea Grant Consortium	29	16	4	9	25.0	16.0	0.0	9.0
Transportation, Department of	15	13	0	2	2.7	1.4	0.0	1.3
South Dakota	7	6	0	1	6.5	6.0	0.0	0.5
Soybean Research and Promotion Council	1	0	0	1	0.5	0.0	0.0	0.5
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Tennessee	5	2	0	3	5.0	2.0	0.0	3.0
Transportation, Department of	5	2	0	3	5.0	2.0	0.0	3.0
Texas	69	37	8	24	35.6	21.9	8.0	5.7
Environmental Quality, Commission on	6	0	0	6	0.6	0.0	0.0	0.6
Parks and Wildlife Department	38	19	7	12	23.3	12.5	7.0	3.8
State Health Services, Department of	25	18	1	6	11.7	9.4	1.0	1.3
Utah	70	47	12	11	38.6	29.6	7.0	2.0
Environmental Quality, Department of	3	3	0	0	0.6	0.6	0.0	0.0
Natural Resources, Department of	60	40	10	10	31.0	25.0	5.0	1.0
Transportation, Department of	7	4	2	1	7.0	4.0	2.0	1.0
Vermont	24	7	15	2	7.7	1.1	5.6	1.0
Human Services, Agency of	13	0	12	1	6.0	0.0	5.0	1.0
Transportation, Agency of	11	7	3	1	1.7	1.1	0.6	0.0
Virginia	365	223	85	57	267.9	204.0	34.0	29.9
Behavioral Health and Developmental Services, Department of	6	6	0	0	0.0	0.0	0.0	0.0
Education, Department of	5	3	1	1	2.5	1.5	0.5	0.5
Energy, Department of	18	14	3	1	18.0	14.0	3.0	1.0
Environmental Quality, Department of	3	3	0	0	0.3	0.3	0.0	0.0
Forensic Science, Department of	11	9	2	0	7.0	5.0	2.0	0.0
Forestry, Department of	13	1	12	0	10.5	1.0	9.5	0.0
Innovation Partnership Corporation	11	1	0	10	10.3	0.4	0.0	9.9
Institute for Advanced Learning and Research	2	1	1	0	1.0	1.0	0.0	0.0
Marine Resources Commission	2	1	1	0	2.0	1.0	1.0	0.0

TABLE 23

## State agency R&amp;D intramural personnel, by state, department or agency, headcount, and full-time equivalent: FY 2023

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Natural History, Museum of	16	5	4	7	11.5	5.0	4.0	2.5
Rail and Public Transportation	2	2	0	0	2.0	2.0	0.0	0.0
Social Services, Department of	18	6	10	2	17.0	6.0	10.0	1.0
Transportation, Department of	79	38	15	26	52.8	33.8	4.0	15.0
Wildlife Resources, Department of	179	133	36	10	133.0	133.0	0.0	0.0
Washington	786	449	223	114	259.4	155.3	76.2	27.9
Ecology, Department of	49	22	24	3	15.3	5.4	9.1	0.8
Fish and Wildlife, Department of	576	333	155	88	147.0	79.0	56.0	12.0
Health, Department of	11	7	2	2	6.9	4.8	1.0	1.1
Labor and Industries, Department of	28	24	0	4	28.0	24.0	0.0	4.0
Natural Resources, Department of	100	54	36	10	44.2	35.1	6.1	3.0
Puget Sound Partnership	2	2	0	0	1.0	1.0	0.0	0.0
Transportation, Department of	8	4	0	4	7.0	3.0	0.0	4.0
Tree Fruit Research Commission	12	3	6	3	10.0	3.0	4.0	3.0
West Virginia	110	82	12	16	76.4	52.7	10.5	13.2
Agriculture, Department of	6	3	0	3	6.0	3.0	0.0	3.0
Geological and Economic Survey	34	21	8	5	34.0	21.0	8.0	5.0
Higher Education Policy Commission	3	0	0	3	1.2	0.0	0.0	1.2
Justice and Community Services, Division of Administrative Services	8	7	0	1	8.0	7.0	0.0	1.0
Natural Resources, Division of	58	50	4	4	26.2	21.7	2.5	2.0
Transportation, Department of	1	1	0	0	1.0	0.0	0.0	1.0
Wisconsin	93	26	62	5	22.7	17.5	0.2	5.0
Natural Resources, Department of	31	26	5	0	17.7	17.5	0.2	0.0
Transportation, Department of	62	0	57	5	5.0	0.0	0.0	5.0
Wyoming	40	17	17	6	34.3	14.0	15.3	5.0
Enhanced Oil Recovery Institute	11	6	3	2	5.5	3.0	1.5	1.0
Game and Fish Department	11	0	11	0	11.0	0.0	11.0	0.0
State Geological Survey	17	11	2	4	17.0	11.0	2.0	4.0
Transportation, Department of	1	0	1	0	0.8	0.0	0.8	0.0
Puerto Rico <sup>c</sup>	222	75	66	81	195.5	67.6	51.5	76.4
Comprehensive Cancer Center	126	44	30	52	126.0	44.0	30.0	52.0
Health, Department of	30	8	10	12	30.0	8.0	10.0	12.0
Innovation and Technology Services	11	0	7	4	2.9	0.0	1.7	1.2
Institute of Statistics	36	8	19	9	22.6	5.6	9.8	7.2
Science, Technology and Research Trust	19	15	0	4	14.0	10.0	0.0	4.0

<sup>a</sup> Researchers include R&D scientists and engineers and their managers.

<sup>b</sup> U.S. total reflects all 50 states and the District of Columbia.

<sup>c</sup> Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2023.